

OXC-2178
COPY 2 of 3

August 23, 1961

Dear Wendell:

Re: Hqs. 2395 (Oxcart)

STAT Enclosed herewith, per reference, is a letter to RGW listing equipment to be provided at [] Bldg. to support project activities in our field. It is as complete as we can make it based on present knowledge. It does not include support equipment for our configuration such as tools and instruments but, for the most part, these will be shipped from here with the main item.

For convenience we have divided the list into three categories.

1. Items peculiar to us and for which we are the only supplier.
2. Items generally used by us here but which are purchased from others and which are not common in A.F. stocks.
3. Items for which ECL numbers exist and which might be expected to be in A.F. stocks.

If at all possible, we would like approval to furnish the items in category 2 as well as those in category 1. They would then be identical to those similar items used here and could be replaced or repaired in an emergency. We have accordingly priced categories 1 and 2 at \$58,098.50. If desired we could furnish them under the "O" portion of PO-1200. This is desirable because some of the items could come from existing stocks and be replaced only as necessary.

STAT One item, Nbr. 12, is more properly a proper item for EG-400. This is a respooling machine needed solely because we have to respool Rod's material [] before shipping (the takeup spool has to stay with the configuration). I know you are short of money. For the present this could be taken out of PO-1200 and put in EG-400 if you wanted to handle it this way.

ELG/MDG

cc: C.F.H. w/encl.

V.W.

R.G.W. w/o encl.

E. L. G.

25 YEAR RE-REVIEW

August 21, 1961

Dear Bob:

Ref: Hqs. Message 2395

OXC - 2178
 COPY 2 OF 3

STAT We have been accumulating equipment requirements [] for some time. In addition to those items already set aside for our use which are listed in the IBM run you left, the following articles will be required. As you appreciate, the list is certain to grow in size as omissions and new operational problems are discovered. We will attempt to make revisions on as prompt a basis as possible.

One point perhaps needs clarification. You had instructed Ed to make all small tool or equipment purchases under \$10.00, keeping these items on inventory, without need for individual purchase approval. We note that such items as drills, taps, dies and wrenches are listed in the ECL list as individual items. It would be more expedient to procure this type of support equipment as "sets" which would certainly be higher in cost than \$10.00. Do you wish to extend your approval to "sets" of small tools? Should we purchase on an individual item basis, or should we re-submit the small items per your Air Force stock number?

STAT Many of the items listed below (indicated by a single *) are unique to our facility and we presume will be fabricated and supplied by us. Some items (indicated by a double **) are commonly used in our facilities and may not be well enough described to make procurement possible unless purchased through us to our normal suppliers. We are prepared to initiate all procurement on the below listed items upon your approval. The purchases would be shipped to your shop for re-shipment []

Approval for the following basic items should be initiated immediately.

<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Cost</u>
*1.	7	Tanks - \$375 each	\$2,625.00
		Above price includes 55 gallon Stainless Steel mix or storage tank and stand, valves and plumbing. It also includes incorporation of pump and filter, items 25 and 27. Costs quoted in items 25 and 27 cover procurement only and are not included in the above figure.	

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<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Cost</u>
*2.	1	Rotometer Panel (Assembled) One plastic covered panel board with necessary wall mounts and fittings including the following Rotometers. 2 each Flowrater Model 10A 1735A Size 4 NPT 316 SS Screwed Connections Beaded Pyrex tube B-4-21 BSVT-45 Type 316SS. Float designed to .620 G. P. M. of liquid specific gravity of 1.0. 3 each Flowrater Model 10A 1735A Size 4 NPT 316 SS Screwed Connections Beaded Pyrex tube B-4-21 BUSVT-40 Type 316SS. Float designed to 0.315 G. P. M. of liquid specific gravity of 1.0.	\$2,500.00
*3.	1	View Table 24" x 36" Illuminator with dual film rewind capability.	3,000.00
*4.	1	Eye Bath Reference #86788 with sink and piping.	495.00
*5.	1 Set	Neutral Density Filters 9" x 10" Sheets Neutral Density of 0.1, 0.2, 0.4, 0.8 and 1.6. - \$16.40 each.	82.00
*6.	1	Verifax Machine 11" x 14"	335.00
*7.	62	Support Channel 48" x 12", 16 gauge perforated cold rolled steel, 1/2" dia. holes, 11/16 between centers. Fabricate our shop. Ref. Dwg. 1-800D-092.	65.00
*8.	8	Special Curtains 7 for 3' opening doorway - \$75 each. 1 for 5'6" opening doorway - \$150 each.	675.00

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<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Cost</u>
*9.	13	Special Lights Utility Lamp Model C with bracket for mounting for use with 10" x 12" filters. 3-1A, 8-3A. Lamps \$20.60 each Brackets 4.65 each Filters 7.35 each	\$ 423.80
*10.	1	Dip Tank 12" wide x 10" long x 18" deep, Stainless Steel.	85.00
*11.	1	Portable Mix Tank 29 gallon mix tank with mixer, pump and filter.	600.00
*12.	1	Re-Spooling Machine (Design & Fabricate) Special spooling machine to accept Baby take-up spool, rewind on return shipping spool under controlled tension.	22,000.00
**13.		Flowrater Accessories (2) Tube-Beaded Pyrex B4-21 -\$29.00 ea. (1) Float-Type 316SS BSVT-45 -\$15.40 ea. (1) Float-Type 316SS BUSVT-40-\$15.40 ea.	88.80
**14.	1	Sensitometer and Table Model 101 Sensitometer adapted to special table.	3,300.00
**15.	6	Viewer - Illuminated 14" x 17" portable illuminator. Porta Trace, Binghamton, N.Y. - \$43.75 ea.	262.50
**16.	1	Mix Room to Special Rooms Intercom Intercom Master Station with three sub-stations. (1) Master \$31.80 (3) Sub-Stations \$ 8.80	58.20

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<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Cost</u>								
**17.	1	Floor Waxer Lincoln Model 216 H.D. (with tank). Combination floor scrubber and waxer.	\$ 400.00								
**18.	1	Enlarger and Accessories Omega B-8 with Condenser, Lamphouse and lens mount, glassless film holder, lamp, red filter (Omega #350), condenser (Omega #4216), lens mount (Omega #3372), dust cover (Omega #7206). Kodak 101mm En- larging Ektar. Launder's Lifetime Easel 14" x 17".	341.00								
**19.	2	Photographic Timer Gra Lab Universal Timer 172	64.00								
**20.	3	Stainless Steel Pails SS 316 type, Schnitzer Alloy Products, 12 qt. capacity w/o feet. - \$21.50 each.	64.50								
**21.		Miscellaneous Valves and Fittings Spare valves and fittings to ensure maintenance capabilities.	500.00								
**22.	1	8' Step Ladder Louisville LM-508 Double Step	15.00								
**23.	3	Thermometer Weston Model 2261, Head 1 3/4" O.D., 8" stem length.	30.00								
		<table border="1"> <thead> <tr> <th><u>Range</u></th> <th><u>Div.</u></th> </tr> </thead> <tbody> <tr> <td>0-220° F</td> <td>2° F</td> </tr> <tr> <td>0-150° F</td> <td>2° F</td> </tr> <tr> <td>0-100° F</td> <td>1° F</td> </tr> </tbody> </table>	<u>Range</u>	<u>Div.</u>	0-220° F	2° F	0-150° F	2° F	0-100° F	1° F	
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0-220° F	2° F										
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**24.	332'	3/4" I.D. Tubing Pipe size carlon H. Mol 100% Virgin Polyethelene, 3/4" I.D. normally pro- curable in lots of 400'.	63.50								

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<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Cost</u>
** 25.	4	Pumps Eastern Industries, Model D-11, 316 SS. 115/60/TE, B.B. with double stuffing box, John Crane C-99 Packing. Approx. cost \$148 each.	\$ 592.00
** 26.	4	Pump Seal Kit For Model D-11 Pump (with double stuffing box). Includes Teflon packing, impeller shaft ass'y and 2 gaskets. Approx. cost \$7.70 each.	30.80
** 27.	9	Filters Fulflo Model SSB10/3/4". Approx. cost \$44.50 each.	400.50
** 28.	24	Filter Cartridges Fulflo 15 R 10S Honeycomb filter tubes. Approx. cost \$1.21 each.	29.20
** 29.	2	Ratosight Serial A-212-225. For liquid with Sp. Gr. of 1.0. Tube 1 ARS-212, Range 1-11 G.P.M. Approx. cost \$73.00 each.	146.00
** 30.		Ratosight Accessories (1) Tube - Pyrex for Ratosight, Serial A-212-255 (0-11 G.P.M.) Approx. cost \$18.80. (1) Float - Brass for Ratosight, Serial A-212-255 (0-11 G.P.M.) Approx. cost \$9.40.	28.20
** 31.	36	Clamps - Hose Slotted for screwdriver, Aero Seal QS-200-M10-S. Approx. cost \$.53 each.	19.10
** 32.	1	Scale Toledo Industrial Fan Scale Model 4791, Chart E1, 3 inch legs, round pan part #91, small scoop.	418.00

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<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Cost</u>
** 33.	1	Hood and Exhaust System w/ blast gate. 2' x 5' opening (mounted above 9" x 30" table) Ref. Dwg. 60286. Blower, Buffalo Forge Baby Vent, 1/6 hp, 1725 rpm, Fan size D (\$107).	\$ 607.00
** 34.	2	Mixer Lightning Mixer Model NC-2. Shaft length 36", 1/8 hp, 1750 rpm, 60 cycle, 1 phase. \$153 each.	306.00
** 35.	2	Plastic Tanks 5 gallon, Dynalab Polyethelene tanks, bottom opening. - \$16.20 each.	32.40
** 36.	2	Continuous Paper Processor CEC Model 23-109 AP6- \$3,495 each.	6,990.00
37.	1	Morse Printer Mil-P-4015 Ship from stock to our facilities for modification. Figure shown is for modification only.	1,500.00
38.	1	Stereoscope ECL 6675-N1SL Wild, 3X and 15X each w/binoculars.	
39.	1	Microscope ECL 6645-NL-44051 Zeiss, w/mount, Model 44051.	
** 40.	1	Combination Refrigerator and Freezer G.E. 11 foot refrigerator, double door with 3.3 cu. ft. freezer, Model TC-324-V.	520.00
41.	4	Floodlight ECL 6760-557-0434 - Floodlight, electric lamp equipment, type PH-219/C.	
42.	4	Tool Chests ECL-7900-087500 - Chest, tool, machinists, 20" x 8 1/2" x 13". Ship to ELG facilities.	

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<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Cost</u>
43.	1	Mix Room Sink Stainless Steel, Leedal, 29" x 72" x 8" plus duckboard and shelf or A. F. equivalent.	
44.		Mix Room Bench (Linoleum covered) (1) 9' x 30" (1) 30" x 30" (1) 8' x 30"	
45.	13	Plugs Hubbell #3331 Twistlock Plugs. (Not available in our area but specified by construction supervisor).	
**46.	5	Hoses (3) 4' x 5/8" w/faucet screw fitting. (2) 20' x 5/8" " " "	50.00
**47.	1	Strobotac General Radio Type 631 BL	210.00

Powers mix valves and sinks for rooms B-4, B-6 and B-8 are being provided by the construction group per Ed G. so they are not included in this request.

Items which you could reasonably be expected to furnish have not been priced. Cost of others is estimated at \$49,952.50. To this figure we would add 8.7% G&A or \$4,346 and 7% Fee or \$3,800, for a total of \$58,098.50, if we provide all listed items. This can be adjusted if you find that you can furnish any of the (*) or (**) items.

Office furniture and storage racks, per previous agreement, are to be furnished by you and are not listed.

Except for items we have inadvertently forgotten, this list is complete except for some camera configuration support items which we are not in a position to detail now.

BLE:LB

cc: F.B.

E.L.G.

C.F.H. ✓

V.W.